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New claims

- 5 1. Target support assembly (1), comprising a support
sleeve (2) on which is arranged a target lining that
is formed by a target sleeve (4) that is slid on to
the support sleeve (2) or into which the support
sleeve (4) is slid, at least one clamping element (6)
10 being arranged to be clampingly effective between the
support sleeve (2) and the target sleeve (4),
characterised in
that a plurality of elastically active clamping
elements (6) are provided which are distributed around
15 the circumference and are formed in each case by a
spring, and which are arranged in a recess (8) in the
internal cylindrical surface of the target sleeve (4)
or in the external cylindrical surface of the support
sleeve (2) in a captive manner on the part carrying
20 them (support sleeve or target sleeve) and press
elastically against the external cylindrical surface
or internal cylindrical surface located opposite said
clamping elements (6).
- 25 2. Target support assembly according to claim 1,
characterised in
that the clamping elements (6) have rounded or oblique
insertion edges (6b, 6c) on both sides facing in the
axial direction.
- 30 3. Target support assembly according to claim 1 or 2,
characterised in
that to exert their clamping pressure the clamping

elements (6) have in each case a clamping arm (6a) that exerts the clamping pressure with its free end portion.

- 5 4. Target support assembly according to claim 3,
characterised in
that an insertion segment (6c) is arranged at the free
end of the clamping arm (6a) and forms an angled or
rounded roof-shaped element with the clamping arm
10 (6a).
5. Target support assembly according to claim 4,
characterised in
that the free end of the insertion segment (6c) is
15 supported against the clamping stress in the clamping
position.
6. Target support assembly according to any one of the
preceding claims,
20 characterised in
that the clamping elements (6) are wedged between the
side walls of a recess (8).
7. Target support assembly according to any one of the
25 preceding claims 3 to 6,
characterised in
that the clamping elements (6) are in each case formed
by an angled spring, in particular an angled leaf
spring, comprising the clamping arm (6a) and a base
30 arm (6e).
8. Target support assembly according to claim 7,
characterised in

that the base arm (6e) is wedged between the side walls of the recess (8).

- 5 9. Target support assembly according to claim 8,
characterised in
that one or more recesses (8) is/are formed as grooves
(8a, 8b) extending in the circumferential or axial
direction or helically.
- 10 10. Target support assembly according to claim 9,
characterised in
that the groove or grooves extending in the
circumferential direction is/are formed in each case
by an annular groove.
- 15 11. Target support assembly according to any one of the
preceding claims,
characterised in
that the clamping elements (6) are in each case made
20 of elastically deformable and/or elastically
compressible material.
- 25 12. Target support assembly according to claim 11,
characterised in
that the clamping elements (6) are made of synthetic
material and in that particles or fibres of
electrically and/or thermally conductive material are
embedded in the material of the clamping elements (6).
- 30 13. Target support assembly according to claim 3 and
either of claims 15 and 16,
characterised in
that the clamping elements (6) have, at least in the

area of an opening of the recess (8), a shape that is convex, in particular rounded, viewed transversely to the axial direction of the support.

- 5 14. Target support assembly according to claim 13, characterised in that the clamping elements (6) and the recess (8) have an annular configuration.
- 10 15. Target support assembly according to claim 14, characterised in that the clamping elements (6) have in each case, at least on their inner side, a convexly rounded cross-sectional form and the base of the recess is
15 preferably rounded correspondingly.
16. Target support assembly according to any one of the preceding claims, characterised in .
- 20 that the length (L1) of the support sleeve (2) is greater than the length (L2) of the target sleeve (4) and at least one annular limiting part (9) is fixed detachably on the support sleeve (2) at one or both ends of the target sleeve (4).